

IP Fire Series™ Sounder Control Module

- **DXP-SDR**

Description

The IP Fire Series™ control system provides for Analog Loop Modules (ALM's) that may be installed throughout a protected facility in any number up to the IPF system maximum of 50 modules. IPF Series™ ALM modules offer analog addressable signaling line (SLC) circuits that may each have up to 126 detectors or 126 addressable control devices in any combination.

AsBuilt Sounder Control Modules (DXP-SDR) are addressable devices that provide a means to remotely locate a fully supervised circuit for the operation of signal appliance such as horns, strobes and horn/strobes. The DXP-SDR can also monitor and control PA speaker circuits from the main IPF Series™ system via the SLC.

DXP-SDR Sounder Control Modules connect to the SLC, are programmed via an 8 pin DIL switch (1-7 for addressing, 8 for Class A/B) and are polarity insensitive.

The DXP-SDR notification appliance circuits are rated for 2A. A separate external 24V power supply must be used. The external supply must be power limited per NFPA.

In standby mode, the DXP-SDR monitors its internal circuitry for status of the device itself and supervises the NAC or speaker circuits for faults. In the event a fault is detected, the DXP-SDR will report a trouble to the IPF Series™ fire control.

The DXP-SDR module incorporates a synchronization facility which allows the outputs of groups of modules to be synchronized by commands from the IP Fire Series™ control panel. Multiple DXP-SDR devices may be programmed to multiple Group Addresses through the Group Addressing switch (S2).

When used as a PA speaker circuit a separate audio amplifier is required (35-70V). The audio amplifier must have wire supervision capability as per NFPA.

Terminal Block Assignments

Terminals are suitable for 14-26 AWG cables.

- TB1 L1 – Loop In/Out
 L2 – Loop In/Out
 L1 and L2 are non-polarized
- TB3 External Supply +ve and –ve Input and Output
- TB2 Class A or B NAC circuit

These devices all use end of line monitoring resistance of 47kΩ.




Features

- **Supervises and operates addressable notification appliance circuit**
- **Supervises DC power in Class A or B NAC circuit**
- **Group addressing for DXP-SDR/NAC synchronization**
- **LED annunciates activation**
- **Fully supervised**
- **PA Speaker Circuit (35-70V)**
- **Plate mounted versions available for surface/flush mounting in 4" square boxes**
- **LED for polling/alarm annunciation**
- **DIL switch addressing**
- **Green/RoHS Compliant**

Listings

UL File: S7003
CSFM: 7300-1394:108
MEA: 294-95-E-4

Product	Data Sheet Number	Rev/Revision Date	
IPF Series™ Sounder Control Module	2814	1.3/ 5/1/2009	

Engineer Specification

The contractor shall furnish and install, where indicated on the plans, addressable interface devices for the monitoring, supervision and control of addressable NAC circuits or PA speaker circuits connected to the Fire Alarm control. The devices shall monitor and activate/deactivate NAC appliances or Speakers. When used to monitor/control NAC appliance circuits the addressable device must be capable of synchronizing with other similar devices attached to the same SLC. The addressable interface devices shall communicate to the main fire control via the analog addressable circuit. The addressable interface device must be UL listed and UL listed as compatible with the AsBuilt IP Fire Series network fire controls. The addressable interface device shall be As Built Engineered Systems part numbers DXP-SDR.

Technical Data

Sounder Control Module:

Dimensions: 4 ½"W x 4 ½"H x 1 ¾"D

Weight: 3 oz

LED visible through fascia plate label

Current Consumption:

Normal Operation/Sounder drive active): 1mA typically

Relay Activated: 4mA typically pulsed for 150ms

Power up surge: 6mA max for 150ms

LED on: 4 mA

Operating Temp: -4°F to 158°F

Humidity: 0% to 95% (no condensation or icing)

Shock: To UL 864

Vibration: To UL 864

Sounder:

Relay output is 4PCO, UL de-rated contact 2A @ 30VDC, .6A @ 125VAC

Opto-isolated input for external 24V power supply
EOL monitoring resistance 47kΩ

PA Speaker Supply:

Opto-isolated input for 35V-70V Audio input.
(To avoid fault conditions when using in PA mode, move jumper J1 to 'PA' mode to disable supply monitoring)

Synchronization:

Switch S2 sets the 'Group Address' to synchronize multiple Sounder modules on the same SLC

Ordering Information

Part Number	Data Sheet	Description
DXP-SDR	2814	Sounder Control Module (55000-825)

Related Modules


DXP-IOM	2812	Input / Output Monitor (55000-820)
DXP-2PID	2816	Dual Priority Input Device (55000-790)
DXP-OCM	2818	Output Control Module (55000-863)
DXP-PIM	2810	Point Identification Module (55000-805)
DXP-MPIM	2810	Mini Point Identification Module (55000-831)
DXP-PID	2810	Priority Input Device (55000-806)
DXP-MPID	2810	Mini Priority Input Device (55000-830)

Related Data Sheets

Discovery Detectors: DISC-P, 2106; DISC-I, 2107; DISC-T, 2108; DISC-M, 2109

XP Detectors: XP-P, 2101; XP-I, 2102; XP-T, 2103; XP-M, 2104

Addressable Base Options: All Bases, 2310

Product Name	Data Sheet Number	Rev/Revision Date	
IPF Series™ Sounder Control Module	2814	1.3/ 5/1/2009	
As Built Engineered Systems, Inc. 1451 Concord Street Framingham, MA 01701-7782 USA	Phone: (508) 788-8333 Fax: (508) 788-8334 Contact: info@asbuiltes.com Visit: www.asbuiltes.com	